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16000

RAW SEQUENCE LISTING

DATE: 06/03/2003

PATENT APPLICATION: US/09/896,095

TIME: 11:15:35

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\06032003\I896095.raw

3 <110> APPLICANT: LADNER, Charles C.
4 GUTERMAN, Sonia K.
5 ROBERTS, Bruce L.
6 MARKLAND, William
7 LEY, Arthur C.
8 KENT, Rachel B.
10 <120> TITLE OF INVENTION: DIRECTED EVOLUTION OF NOVEL BINDING PROTEINS
12 <130> FILE REFERENCE: LADNER=7L
14 <140> CURRENT APPLICATION NUMBER: 09/896,095
15 <141> CURRENT FILING DATE: 2001-06-29
17 <150> PRIOR APPLICATION NUMBER: 08/415,922
18 <151> PRIOR FILING DATE: 1995-03-04
20 <150> PRIOR APPLICATION NUMBER: 08/009,319
21 <151> PRIOR FILING DATE: 1993-01-26
23 <150> PRIOR APPLICATION NUMBER: 07/664,989
24 <151> PRIOR FILING DATE: 1991-03-01
26 <150> PRIOR APPLICATION NUMBER: 08/993,776
27 <151> PRIOR FILING DATE: 1997-12-18
29 <160> NUMBER OF SEQ ID NOS: 274
31 <170> SOFTWARE: PatentIn version 3.2
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 28
35 <212> TYPE: PRT
36 <213> ORGANISM: Artificial
38 <220> FEATURE:
39 <223> OTHER INFORMATION: synthetic - zinc finger consensus
42 <220> FEATURE:
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44 <222> LOCATION: (2)..(2)
45 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
47 <220> FEATURE:
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49 <222> LOCATION: (4)..(5)
50 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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55 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
57 <220> FEATURE:
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59 <222> LOCATION: (11)..(15)
60 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
62 <220> FEATURE:

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63 <221> NAME/KEY: misc_feature
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65 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
67 <220> FEATURE:
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70 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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75 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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80 1 5 10 15
83 Xaa Xaa His Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
84 20 25
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103 <222> LOCATION: (4)..(5)
104 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
106 <220> FEATURE:
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124 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (24)..(28)

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129 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
131 <400> SEQUENCE: 2
W--> 133 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
134 1 5 10 15
137 Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
138 20 25
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143 <212> TYPE: PRT
144 <213> ORGANISM: Artificial
146 <220> FEATURE:
147 <223> OTHER INFORMATION: synthetic - zinc finger consensus
150 <220> FEATURE:
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152 <222> LOCATION: (2)..(2)
153 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (4)..(6)
158 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
160 <220> FEATURE:
161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (8)..(10)
163 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
165 <220> FEATURE:
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167 <222> LOCATION: (12)..(16)
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172 <222> LOCATION: (18)..(19)
173 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (21)..(23)
178 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (25)..(29)
183 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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188 1 5 10 15
191 Leu Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
192 20 25
195 <210> SEQ ID NO: 4
196 <211> LENGTH: 29
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial

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200 <220> FEATURE:
201 <223> OTHER INFORMATION: synthetic - zinc finger consensus
204 <220> FEATURE:
205 <221> NAME/KEY: misc_feature
206 <222> LOCATION: (2)..(2)
207 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <222> LOCATION: (4)..(6)
212 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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216 <222> LOCATION: (8)..(10)
217 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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221 <222> LOCATION: (12)..(16)
222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (18)..(19)
227 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: (21)..(23)
232 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (25)..(29)
237 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
239 <400> SEQUENCE: 4
W--> 241 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
      242 1          5          10          15
      245 Leu Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
      246          20          25
249 <210> SEQ ID NO: 5
250 <211> LENGTH: 30
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial
254 <220> FEATURE:
255 <223> OTHER INFORMATION: synthetic - zinc finger consensus
258 <220> FEATURE:
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260 <222> LOCATION: (2)..(2)
261 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
263 <220> FEATURE:
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265 <222> LOCATION: (4)..(7)
266 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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Input Set : A:\sequence listing.txt

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268 <220> FEATURE:
269 <221> NAME/KEY: misc_feature
270 <222> LOCATION: (9)..(11)
271 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (13)..(17)
276 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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285 <222> LOCATION: (22)..(24)
286 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (26)..(30)
291 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
293 <400> SEQUENCE: 5
W--> 295 Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
296 1 5 10 15
299 Xaa Leu Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
300 20 25 30
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304 <211> LENGTH: 30
305 <212> TYPE: PRT
306 <213> ORGANISM: Artificial
308 <220> FEATURE:
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312 <220> FEATURE:
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315 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
317 <220> FEATURE:
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320 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
322 <220> FEATURE:
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324 <222> LOCATION: (9)..(11)
325 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <222> LOCATION: (13)..(17)
330 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
332 <220> FEATURE:
333 <221> NAME/KEY: misc_feature

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RAW SEQUENCE LISTING ERROR SUMMARY

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Input Set : A:\sequence listing.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. ~~2, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 17, 18, 20, 21, 22, 24, 25, 26, 27, 28~~
 Seq#:2; Xaa Pos. ~~2, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 17, 18, 20, 21, 22, 24, 25, 26, 27, 28~~
 Seq#:3; Xaa Pos. ~~2, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16, 18, 19, 21, 22, 23, 25, 26, 27, 28~~
 Seq#:3; Xaa Pos. ~~29~~
 Seq#:4; Xaa Pos. ~~2, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16, 18, 19, 21, 22, 23, 25, 26, 27, 28~~
 Seq#:4; Xaa Pos. ~~29~~
 Seq#:5; Xaa Pos. ~~2, 4, 5, 6, 7, 9, 10, 11, 13, 14, 15, 16, 17, 19, 20, 22, 23, 24, 26, 27, 28~~
 Seq#:5; Xaa Pos. ~~29, 30~~
 Seq#:6; Xaa Pos. ~~2, 4, 5, 6, 7, 9, 10, 11, 13, 14, 15, 16, 17, 19, 20, 22, 23, 24, 26, 27, 28~~
 Seq#:6; Xaa Pos. 29, 30
 Seq#:7; Xaa Pos. 1, 3, 4, 5, 6, 8
 Seq#:8; Xaa Pos. 3, 5, 6, 7, 8, 10
 Seq#:19; Xaa Pos. 1, 2, 4, 5, 6, 7, 9, 10
 Seq#:20; Xaa Pos. 1, 4, 5, 6, 8, 9, 10, 11, 12
 Seq#:21; Xaa Pos. 1, 4, 5, 6, 8, 9, 10, 11, 12, 14
 Seq#:22; Xaa Pos. 1, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15
 Seq#:23; Xaa Pos. 1, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16
 Seq#:24; Xaa Pos. 1, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 17
 Seq#:25; Xaa Pos. 1, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18
 Seq#:26; Xaa Pos. 1, 2, 5, 6, 7, 9, 10, 11, 12, 13
 Seq#:27; Xaa Pos. 1, 2, 5, 6, 7, 9, 10, 11, 12, 13, 15
 Seq#:28; Xaa Pos. 1, 2, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16
 Seq#:29; Xaa Pos. 1, 2, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17
 Seq#:30; Xaa Pos. 1, 2, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18
 Seq#:31; Xaa Pos. 1, 2, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19
 Seq#:32; Xaa Pos. 1, 2, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18, 19, 22
 Seq#:34; Xaa Pos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 20, 21, 22, 23
 Seq#:35; Xaa Pos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 19, 21, 22, 23, 24
 Seq#:36; Xaa Pos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 20, 21, 22, 23, 24
 Seq#:37; Xaa Pos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 19, 21, 22, 23, 24, 25
 Seq#:38; Xaa Pos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 20, 21, 22, 23, 24, 25
 Seq#:39; Xaa Pos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 18, 19, 21, 22, 23, 24, 25, 26
 Seq#:40; Xaa Pos. 5, 6, 7, 8, 9, 10
 Seq#:41; Xaa Pos. 5, 6, 7, 8, 9, 10
 Seq#:42; Xaa Pos. 4, 6, 7, 8, 9, 10, 11
 Seq#:88; Xaa Pos. 1, 2, 3, 4, 5, 6
 Seq#:89; N Pos. 1, 2, 7, 8, 10, 11, 13, 14, 16, 17, 22, 23
 Seq#:107; N Pos. 5, 7, 8
 Seq#:123; N Pos. 21, 22, 24, 25, 27, 28
 Seq#:124; N Pos. 21, 22, 24, 25, 27, 28, 30, 31, 33, 34
 Seq#:125; N Pos. 21, 22, 24, 25, 27, 28, 30, 31, 33, 34, 36, 37, 39, 40
 Seq#:127; N Pos. 29, 30, 32, 33, 35, 36
 Seq#:128; N Pos. 29, 30, 32, 33, 35, 36, 38, 39, 41, 42
 Seq#:129; N Pos. 29, 30, 32, 33, 35, 36, 38, 39, 41, 42, 44, 45, 47, 48

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Seq#:143; N Pos. 10,11,12,13,14,15,18,19,20,21,27,28,29,30,33,36,39,42,45
Seq#:143; N Pos. 46,47,48,51,54,58,59,60,61,62,63,69,70,71,72,75,85,86,87
Seq#:143; N Pos. 93,96,102,105,108,117,118,119,120,129,144,150,153,154,155
Seq#:143; N Pos. 156,165,171,177,180,184,185,186,189,193,194,195,208,209
Seq#:143; N Pos. 210,213,228,231,237,240,243,246,252,261,264,270,273,280
Seq#:143; N Pos. 281,282,283,284,285,291,292,293,294,297,300,312,318,324
Seq#:143; N Pos. 330,333,336,342,345,348,351,357,364,365,366,381,382,383

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,34,35,36,37,38,39,40,41,42,43,45,46,47,48,49,50,51,52,53
Seq#:54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77
Seq#:78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119
Seq#:120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137
Seq#:138,139,140,141,142,143,145,146,149,150,151,152,153,154,179,180,181,182
Seq#:183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200
Seq#:201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218
Seq#:219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236
Seq#:237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254
Seq#:255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272
Seq#:273,274

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L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32
L:1107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
M:341 Repeated in SeqNo=34
L:1146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
M:341 Repeated in SeqNo=35
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
M:341 Repeated in SeqNo=36
L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
M:341 Repeated in SeqNo=37
L:1263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
M:341 Repeated in SeqNo=38
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
M:341 Repeated in SeqNo=39
L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0

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L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0

L:2547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0